

| | | | |
|--|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 07977-304001 | Application No. 10/081,558 |
| Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | | Applicant Seo, et al. | |
| | | Filing Date February 20, 2002 | Group Art Unit |

U.S. Patent Documents

| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|--------------|---------------|-------|----------|----------------------------|
| AS | AA | 5 925 980 | Jul 20, 1999 | So et al. | | | |
| | AB | 5 853 905 | Dec 29, 1998 | So et al. | | | |
| | AC | 6 130 001 | Oct 10, 2000 | Shi et al. | | | |
| | AD | 5 271 089 | Dec 14, 1993 | Ozawa | | | |
| | AE | 6 285 039 | Sep 4, 2001 | Kobori et al. | | | |

Foreign Patent Documents or Published Foreign Patent Applications

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| AS | AF | 1 065 737 | Jan 3, 2001 | EPO | | | | |
| | AG | 10-233288 | Sep 2, 1998 | Japan | | | Full | |
| | AH | 2001-52870 | Feb 23, 2001 | Japan | | | Full | |

Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|--|
| AS | AI | Tang et al. "Organic electroluminescent diodes." Applied Physics Letters 51(12): 1987. p. 913-915. |
| | AJ | Kijima et al. "A blue organic light emitting diode." Jpn. J. Appl. Phys. 38: 1999. p. 5274-5277. |
| | AK | C. Adachi et al. "Electroluminescence in organic films with three-layer structure." Jpn. J. Appl. Phys. 27(2): 1988. p. L269-L271. |
| | AL | C.W. Tang et al. "Electroluminescence of doped organic thin films." J. Appl. Phys. 65(9): 1989. p. 3610-3616. |
| | AM | "New Aspect of Research and Development of Organic EL." M&BE Seminar, Bulletin of Organic Molecular/Bioelectronics Subcommittee, Society of Applied Physics, 11(1): 2000. p. 3-12. |
| | AN | T. Wakimoto et al. "Organic EL cells using alkaline metal compounds as electron injection materials." IEEE Transactions on Electron Devices 44(8): 1997. p. 1245-1248. |
| | AO | S.A. Van Slyke et al. "Organic electroluminescent devices with improved stability." Appl. Phys. Lett. 69(15): 1996. p. 2160-2162. |
| | AP | D.F. O'Brien et al. "Improved energy transfer in electrophosphorescent devices." Appl. Phys. Lett. 74(3): 1999. p. 442-444. |
| | AQ | T. Tsutsui et al. "High quantum efficiency in organic light-emitting devices with iridium-complex as a triplet emissive center." Jpn. J. Appl. Phys. 38: 1999. p. L1502-L1504. |
| | AR | T. Tsutsui et al. "The operation mechanism and the light emission efficiency of the organic EL element." Text of the Third Lecture Meeting, Bulletin of Organic Molecular/Bioelectronics Subcommittee, Society of Applied Physics, p. 31-37. |
| | AS | J. Kido et al. "Multilayer white light-emitting organic electroluminescent device." Science 367: 1995. p. 1332-1334. |

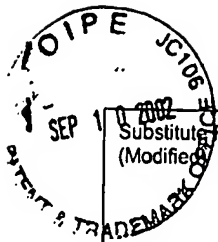
Examiner Signature

AS

Date Considered

6/17/04

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



COPY OF PAP,
ORIGINALLY

Sheet 1 of 1

Substitute Form PTO-1449
(Modified)

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.
07977-304001

Application No.
10/081,558

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
S. Seo, et al.

Filing Date
February 20, 2002

Group Art Unit

U.S. Patent Documents

| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|------------|----------|-------|----------|----------------------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |

Foreign Patent Documents or Published Foreign Patent Applications

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| | AE | | | | | | | |
| | AF | | | | | | | |
| | AG | | | | | | | |
| | AH | | | | | | | |
| | AI | | | | | | | |

Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|---|
| | AJ | |
| | AK | |
| | AL | |
| | AM | |
| | AN | |
| | AO | |
| | AP | |
| | AQ | |
| | AR | |
| AS | AS | J. Kido et al. "Multilayer white light-emitting organic electroluminescent device." Science 267: 1995. p. 1332-1334 |

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitut Disclosure Form (PTO-1449)

| | | | |
|--|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 07977-304001 | Application No. 10/081,558 |
| Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | | Applicant Seo, et al. | |
| | | Filing Date February 20, 2002 | Group Art Unit |

| Other Documents (include Author, Title, Date, and Place of Publication) | | |
|---|-----------|---|
| Examiner Initial | Desig. ID | Document |
| A.S. | AT | Satoshi Seo et al., U.S. patent application serial no. 10/043,786, filed January 10, 2002 |
| | AU | Satoshi Seo et al., U.S. patent application serial no. 10/043,812, filed January 10, 2002 |
| | AV | Satoshi Seo et al., U.S. patent application serial no. 10/060,427, filed January 29, 2002 |
| | AW | Shunpei Yamazaki et al., U.S. patent application serial no. 10/062,005, filed January 31, 2002 |
| | AX | Satoshi Seo et al., U.S. patent application serial no. 10/072,507, filed February 5, 2002 |
| | AY | Shunpei Yamazaki et al., U.S. patent application serial no. 10/072,310, filed February 5, 2002 |
| | AZ | Shunpei Yamazaki et al., U.S. patent application serial no. 10/081,971, filed February 20, 2002 |
| | AAA | Hirokazu Yamagata et al., U.S. patent application serial no. 09/852,090, filed May 10, 2001. |
| | ABB | Satoshi Seo et al., U.S. patent application serial no. 10/026,064, filed December 21, 2001. |
| | ACC | Satoshi Seo et al., U.S. patent application serial no. 10/024,699, filed December 21, 2001. |
| X | ADD | |

| | |
|--|-----------------------------------|
| Examiner Signature <i>AS</i> | Date Considered <i>6/17/04</i> |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | | |
|---|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 07977-304001 | Application No. 10/081,558 |
| Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | | Applicant Satoshi Seo, et al. | |
| | | Filing Date February 20, 2002 | Group Art Unit 2821 |

OCT 07 2003

U.S. Patent Documents

| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|-----------------|------------------|----------|-------|----------|----------------------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
| | AE | | | | | | |
| | AF | | | | | | |
| | AG | | | | | | |
| | AH | | | | | | |
| | AI | | | | | | |
| | AJ | | | | | | |
| | AK | | | | | | |

 RECEIVED
 OCT - 8 2003
 TC 2600 MAIL ROOM

Foreign Patent Documents or Published Foreign Patent Applications

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| | AL | | | | | | | |
| | AM | | | | | | | |
| | AN | | | | | | | |
| | AO | | | | | | | |
| | AP | | | | | | | |

Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|--|
| AS | AQ | Takeshi Nishi et al., "High Efficiency TFT-OLED Display with Iridium-Complex As Triplet Emissive Center", <i>Proceedings of the 10th International Workshop on Inorganic and Organic Electroluminescence</i> , pp. 353-356, December 4-7, 2000 |
| | AR | |
| | AS | |

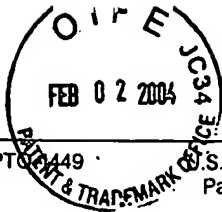
Examiner Signature

AS

Date Considered

6/17/04

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 1

| | | | |
|--|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 07977-304001 | Application No. 10/081,558 |
| | Applicant Satoshi Seo, et al. | | |
| | Filing Date February 20, 2002 | Group Art Unit 2821 | |

| U.S. Patent Documents | | | | | | | |
|-----------------------|-----------|-----------------|------------------|---------------|-------|----------|----------------------------|
| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee | Class | Subclass | Filing Date If Appropriate |
| A.S. | AA | 2002/0038867 A1 | 04/04/2002 | Kobori et al. | | | 03/14/2001 |
| | AB | 2003/0118950 A1 | 06/26/2003 | Chao et al. | | | 12/04/2002 |
| | AC | 6,517,996 | 02/11/2003 | Chao et al. | | | 11/17/2000 |
| | AD | 6,603,140 | 08/05/2003 | Kobori et al. | | | 03/14/2001 |
| | AE | | | | | | |
| | AF | | | | | | |
| | AG | | | | | | |
| | AH | | | | | | |
| | AI | | | | | | |
| | AJ | | | | | | |
| | AK | | | | | | |

| Foreign Patent Documents or Published Foreign Patent Applications | | | | | | | | |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | |
| | | | | | | | Yes | No |
| A.S. | AL | WO 98/08360 | 02/26/1998 | WIPO/PCT | | | ABS | |
| | AM | 451601 | 08/21/2001 | TAIWAN | | | ABS | |
| | AN | | | | | | | |
| | AO | | | | | | | |
| | AP | | | | | | | |

| Other Documents (include Author, Title, Date, and Place of Publication) | | |
|---|-----------|----------|
| Examiner Initial | Desig. ID | Document |
| | AQ | |
| | AR | |
| | AS | |
| | AT | |

| | |
|--|----------------------------|
| Examiner Signature <i>AS</i> | Date Considered 6/17/04 |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.

07977-304001

Application No.

10/081,558

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

Applicant

S. Seo, et al.

Filing Date

February 20, 2002

Group Art Unit

2879

U.S. Patent Documents

| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|-----------------|------------------|----------|-------|----------|----------------------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
| | AE | | | | | | |
| | AF | | | | | | |
| | AG | | | | | | |
| | AH | | | | | | |
| | AI | | | | | | |
| | AJ | | | | | | |
| | AK | | | | | | |

Foreign Patent Documents or Published Foreign Patent Applications

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| AS | AL | 243470 | 03/21/95 | TW | | | ABS | |
| | AM | | | | | | | |
| | AN | | | | | | | |
| | AO | | | | | | | |
| | AP | | | | | | | |

Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|----------|
| | AQ | |
| | AR | |
| | AS | |
| | AT | |

Examiner Signature

AS

Date Considered

6/17/04

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED
MAR - 6 2003
TO 2800 MAIL ROOM